

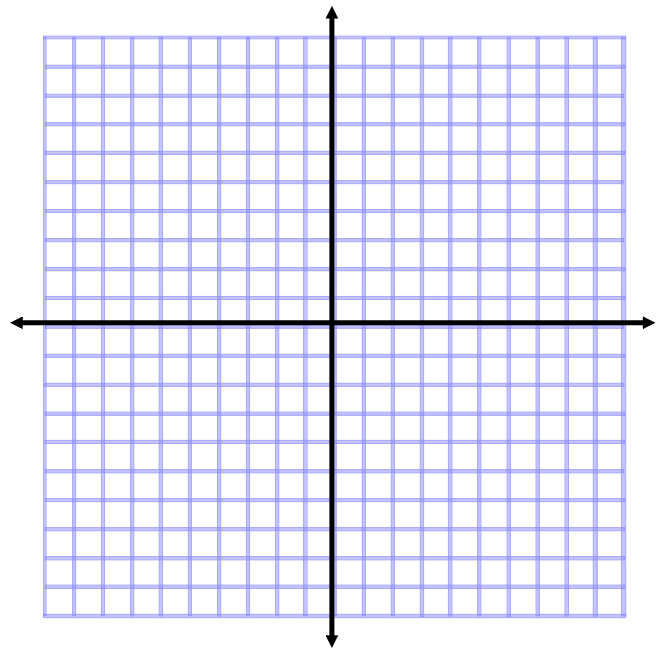
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1) Explain how you can prove each statement in the coordinate plane below (i.e. what formula will help you show that this is true):

- Two sides of a quadrilateral are **congruent**
- Two opposite sides of a quadrilateral are **parallel**
- Two adjacent sides of a quadrilateral are **perpendicular**
- Two segments are **bisectors** of each other

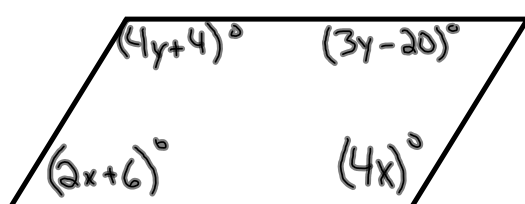
2) Determine the most precise name for quadrilateral ABCD with vertices A (-3, 3), B (2, 4), C (3, -1), & D (-2, -2).



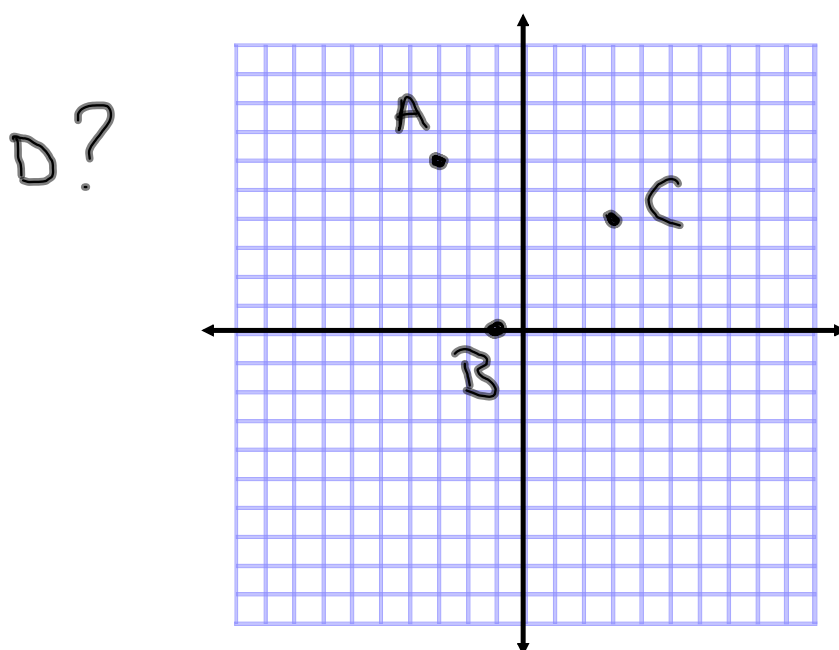
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Given that the figure is a parallelogram, find the values of x & y .



Given three vertices of parallelogram ABCD, find the fourth point.

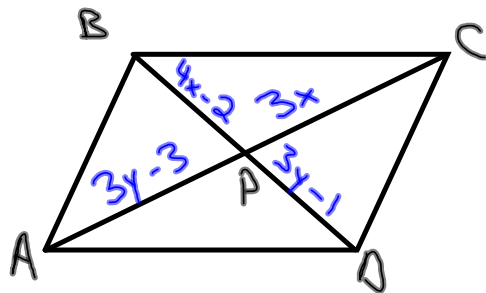


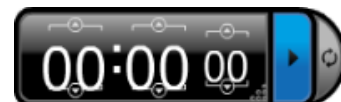
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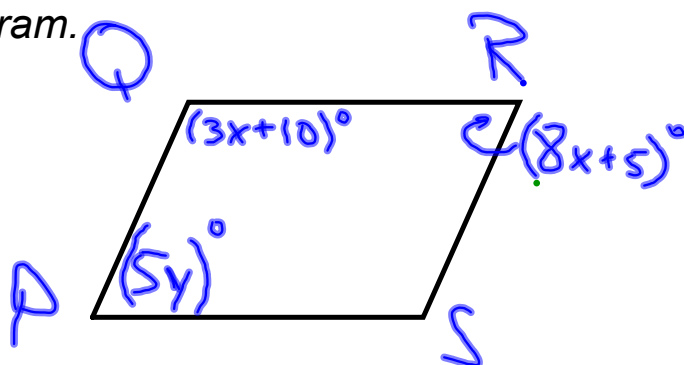
- ① One side of a kite is 7 cm less than 5 times the length of another side. The perimeter of the kite is 94 cm. find the lengths of the sides of the kite

- ② Find the length of each diagonal in the parallelogram.





- ① Find the values for x & y for which PQRS must be a parallelogram.



- ② Given: AB is parallel to CD. AB is congruent to CD.

Prove: AC is congruent to BD.

